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1 October 1963

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**EVALUATIONS OF SOVIET
SURFACE-TO-SURFACE
MISSILE DEPLOYMENT**

9TH REVISION

**A Report of the Deployment Working Group
of the
Guided Missiles and Astronautics Intelligence Committee**



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The Guided Missiles and Astronautics Intelligence Committee (GMAIC) wishes to express its appreciation to the National Photographic Interpretation Center for its assistance in the editing, illustration, and publication of this report.

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PREFACE

This report, formerly published bimonthly by the GMAIC Deployment Working Group (DWG) in mimeograph form, has been expanded to include additional data. It will continue to be published bimonthly in this new format.

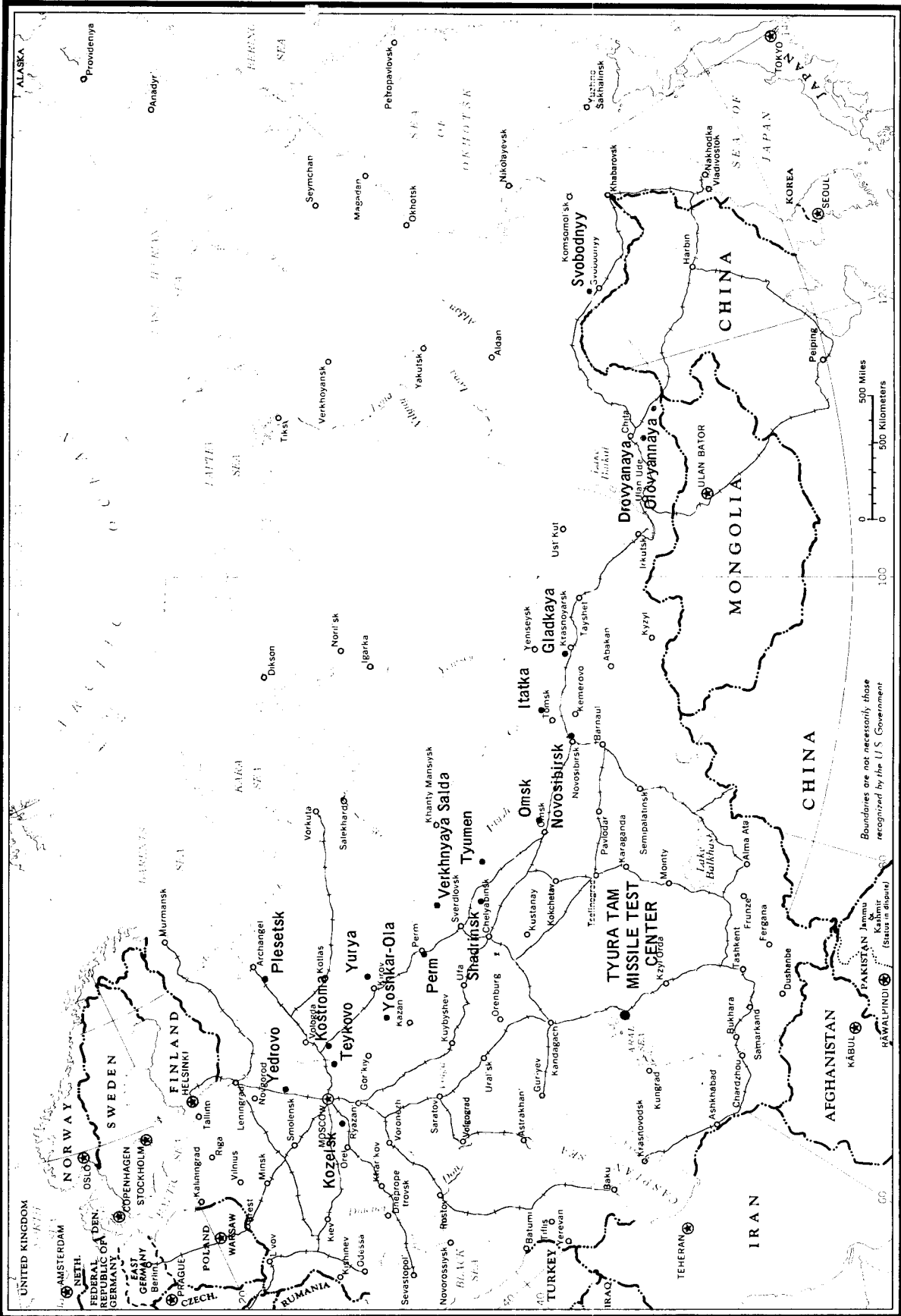
Dissemination of the report was previously limited to holders of the DWG report, Soviet Surface-to-Surface Missile Deployment. Because the information contained herein is both supplemental and self-sustaining, distribution will no longer be limited to holders of the above report.

The current format provides a comprehensive, ready reference listing of all ICBM, IRBM, and MRBM deployment locations, types of site configurations, photographic references, estimated construction and operational status, and other evaluations of the DWG. Additional data may be added to future revisions.

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FIGURE 1. DEPLOYMENT OF SOVIET ICBM COMPLEXES.

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INTRODUCTION

This report is the ninth revision of Evaluations of Soviet Surface-to-Surface Missile Deployment prepared by the Deployment Working Group of the Guided Missiles and Astronautics Intelligence Committee. The eighth revision, dated 1 August 1963 and disseminated under control number [] should be destroyed in accordance with existing instructions for handling [] material.

[] has provided additional information on the Soviet ballistic missile deployment program. The new data are reflected in the estimates and operational status shown in Tables 2 and 3.

SOVIET ICBM DEPLOYMENT

Only one ICBM complex has been identified since [] that was Olovyannaya identified on []. At the 18 ICBM complexes, 3 new hard ICBM sites were identified on []. In addition, one possible soft site was confirmed on a re-analysis of []. These newly identified ICBM sites raise the total number of confirmed deployed sites to 95 (211 launchers), and 2 sites in the possible category. Of the 211 launchers about 100 are considered to be operational. The two possible sites are in very early stages of construction and it is not yet possible to make a firm evaluation. See Figure 1 for locations of deployed ICBM complexes.

In the last report we regrouped types of ICBM sites for the purpose of standardization. We are listing types again to stress the importance of standardization of types by the intelligence community (Figure 2).

Type I - Any rail-served soft site. To date, this type site has been observed only at Plesetsk and at Launch Complexes A and B, and probably G, at Tyura Tam.

Type II - Any road-served soft site. Since [] we have identified four deployed variations of this basic concept. These have been designated as Type II A, B, C, and D. Type II sites at Tyura Tam are located at Launch Complexes C and E.

Type III - Any hard launch site. Type III prototype sites have been identified at Launch Complexes D and F at Tyura Tam. Although there has been some question as to the number of launch silos at hard sites, it is the considered judgment that it is more likely that the hard ICBM sites identified to date have three launch silos. As stated in the 1 August report there appear to be two variations of the hard site configuration. These variations are designated as:

Type IIIA - Those hard sites resembling Launch Area D-1 at the TTMTTC.

Type IIIB - Those hard sites resembling Launch Complex F at the TTMTTC.

Three new ICBM launch sites were identified on [] and one possible site was confirmed at the following complexes:
DROVYANAYA

Launch Site F (6), Type IIIA
KOZELSK

Launch Site C (1), Type III (Mode undetermined)

Launch Site F (6), Type IIIB
SVOBODNY

Launch Site F (5), Type IID*

Unusual Developments at Certain Type IIC Sites

Construction of some of the IIC sites identified at Tyumen and Kozelsk is continuing. No new sites of this type have been identified since [] and those previously identified at

*Listed in 1 August report as a possible site, type undetermined.

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Gladkaya have now all been converted to other type sites or abandoned. A hard site being constructed adjacent to the old Site C at Kozelsk was identified on [] but activity at the other IIC sites there continues. If this new hard site is a IIIB, it would be the first start of this type since []. There are only 7 IIC sites remaining: 2 at Plesetsk, 3 at Kozelsk, and 2 (possibly 3) at Tyumen. Only those at Plesetsk are considered complete. Recent photography shows that construction activity at the remaining IIC sites, previously reported as being stopped or slowed, has resumed.

SOVIET MRBM/IRBM DEPLOYMENT

A total of 135 soft MRBM sites (540 launchers) and 14 soft IRBM sites (56 launchers) have been identified to date. In addition, 21 hard MRBM sites (42 launchers) and 20 hard IRBM sites (40 launchers) have been identified. Of these totals, the following new sites have been identified on []

AKTYUBINSK

Hard Launch Site No 1

Hard Launch Site No 2

BYKOV

Launch Site No 1 (Possible)

KROLEVETS

Launch Site No 3

SIMFEROPOL

Launch Site No 1

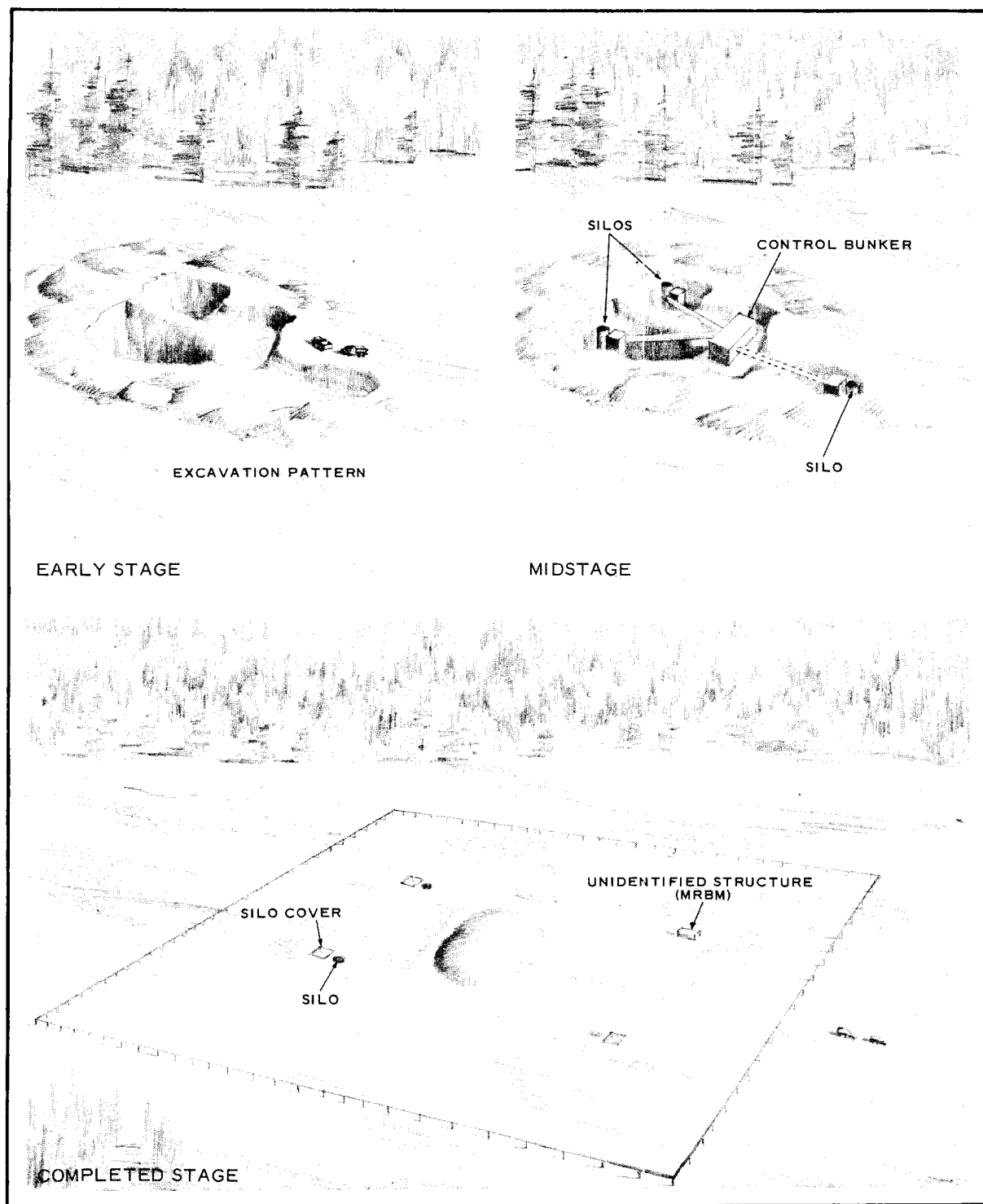
Launch Site No 2

It is now possible to differentiate between the hard IRBM and hard MRBM sites. Both site

configurations contain three silos, but the MRBM site contains an additional unidentified structure, forming an "H" configuration (Figure 3). There is some question as to whether there is an excavation for a right rear or fourth silo at MRBM sites; photography shows that some sites, when completed, appear to have four similar objects which may be covers for four silos. Pending further analysis we will continue to carry 2 launchers at both IRBM and MRBM sites. The hard IRBMs are either separate complexes containing three hard sites, or are associated with soft IRBM sites. The hard MRBM is always associated with a soft MRBM complex. Because of these differences, Figure 5 has been changed accordingly. We have identified three silos at both IRBM and MRBM sites, and it is possible that all three are launch silos. However, certain features of the left rear silo shown in Figure 5 have construction dissimilarities which cast some doubt as to its function.

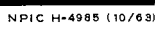
The newly identified MRBM site at Zhuravka appears to be unoccupied; however, the quality of photography is such that we will carry it as operational. In addition, there are five individual installations located at Marina Gorka, Rozhdestvenka, Kraskino, Belomorsk and Uzhgorod, which have been designated as MRBM or IRBM soft sites. Although no housing or associated support facilities have been identified in the immediate area, the sites are carried in Table 3 as complete. It is not possible to determine their operational status, or how they fit into the deployment pattern.

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FIGURE 3. CONSTRUCTION STAGES OF A HARD MRBM/IRBM LAUNCH SITE.



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TABLE 1. SUMMARY OF ESTIMATED STATUS OF IDENTIFIED ICBM AND MRBM/IRBM LAUNCHERS AT DEPLOYED COMPLEXES*

Type	Sites	Launchers	Operational	U/C	Type	Sites	Launchers	Operational	U/C
ICBM					MRBM/IRBM				
I	3	4	4	0	I	82	328	328	0
II A	5	10	10	0	II	53	212	200	12
II B	29	58	58	0	III	14	56	56	0
II C	8	16	4	12	IV	41	82	60	22
II D	27	54	8	46					
III(UNDET)	1	3	0	3					
III A	19	57	18	39					
III B	3	9	0	9					
TOTAL	95	211	102	109	TOTAL	190	678	644	34

*See Tables 2 and 3 for details. Figures include a third launch silo at Type III ICBM sites.

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TABLE 2. SUMMARY EVALUATION OF SOVIET ICBM DEPLOYMENT

Location *	BE Number	Coordinates	Type of Site	Number of Launchers		Site Negated		First Coverage		Latest Coverage		Stage of Const. on Last Usable Coverage			Estimated Quarter Site Operational				Estimated Status
				Soft	Hard	Date	Msn	Date	Msn	Date	Msn	Date	Msn	Const	1st	2nd	3rd	4th	
DROVYANAYA																			
Site A (1)		51-24N 113-00E	II B	2											63				Operational
Site B (2)		51-23N 113-07E	III		3										64				U/C
Site C (3)		51-20N 113-01E	II D	2															U/C
Site D (4)		51-28N 113-04E	II D	2															U/C
Site E (5)		51-22N 112-50E	III A		3										64				U/C
Site F (6)		51-19N 112-53E	III A		3											65			U/C
GLADKAYA																			
Site A (3)		56-20N 92-20E	II D	2															U/C
Site B (2)		56-25N 92-25E	II D	2															U/C
Site C (4)		56-30N 91-58E	III A		3														U/C
ITATKA																			
Site A (1)		56-58N 85-33E	II B	2															Operational
Site B (2)		57-01N 85-39E	II B	2															Operational
Site C (3)		56-54N 85-39E	II D	2											63				U/C
KOSTROMA																			
Site A (1)		58-02N 41-21E	II B	2															Operational
Site B (2)		58-02N 41-07E	II B	2															Operational
Site C (3)		57-59N 41-09E	II B	2															Operational
Site D (4)		58-05N 41-40E	II B	2															Operational
Site E (5)		57-57N 41-13E	III A		3										63				U/C
Site F (6)		57-55N 41-09E	II D	2															Operational
Site G (7)		58-06N 41-34E	II D	2															U/C
KOZELSK																			
Site A (3)		53-54N 35-44E	II C	2															Operational
Site B (2)		53-48N 35-47E	II C	2															Operational
Site C (1)		53-46N 35-41E	III		3														U/C
Site D (4)		53-52N 35-51E	II C	2															U/C
Site E (5)		53-51N 35-41E	III B		3										64				U/C
Site F (6)		53-41N 35-39E	III B		3														U/C
NOVOSIBIRSK																			
Site A (2)		55-19N 83-10E	II B	2															Operational
Site B (1)		55-19N 83-01E	III A		3										63				Operational
Site C (3)		55-23N 82-56E	III A		3														U/C
Site D (4)		55-21N 83-14E	II B	2											64				U/C
OLOVYANNAYA																			
Site A (1)		50-54N 115-49E	III A		3														U/C
Site B (2)		50-55N 115-44E	III A		3														U/C
OMSK																			
Site A (1)		55-09N 73-38E	III B		3										64				U/C
Site B (3) Possible		55-11N 73-33E	Undet																U/C
PERM																			
Site A (1)		57-41N 56-13E	II B	2															Operational
Site B (2)		57-42N 55-57E	II B	2															Operational
Site C (3)		57-37N 56-07E	II B	2															Operational
Site D (5)		57-43N 55-49E	II D	2															U/C
Site E (6)		57-45N 56-00E	II D	2															U/C
Site F (4)		57-41N 56-04E	III A		3										65				U/C

TABLE 2. (Continued)

Location*	BE Number	Coordinates	Type of Site	Number of Launchers		Site Negated		First Coverage		Latest Coverage		Stage of Const on Last Usable Coverage			Estimated Quarter Site Operational				Estimated Status
				Soft	Hard	Date	Msn	Date	Msn	Date	Msn	Date	Msn	Const	1st	2nd	3rd	4th	
PLESETSK																			
Site 1 (1)		62-55N 40-27E	I	2											60				Operational
Site 2 (2)		62-56N 40-32E	I	1											60				Operational
Site 3 (3)		62-57N 40-41E	I	1												60			Operational
Site A (4)		62-58N 40-47E	II A	2													61		Operational
Site B (5)		63-03N 40-58E	II B	2															Operational
Site C (6)		63-01N 40-52E	III A		3										63				Operational
Site D (8)		62-53N 40-50E	II C	2													63		Operational
Site E (7)		62-50N 40-35E	II C	2															Operational
SHADRINSK																			
Site A (1)		56-09N 63-52E	III A	3													63		Operational
Site B (2)		56-10N 64-03E	III A	3											64				U/C
Site C (3)		56-07N 65-57E	III A	3											65				U/C
SVOBODNY																			
Site A (3)		51-55N 128-10E	II B	2													62		Operational
Site B (1)		51-49N 128-19E	II B	2														62	Operational
Site C (2)		51-53N 128-23E	II B	2											63				Operational
Site D (4)		52-00N 128-06E	II D	2														63	U/C
Site E (6)		51-43N 128-00E	II D	2											64				U/C
Site F (5)		51-52N 128-13E	II D	2														63	U/C
TEYKOVO																			
Site A (1)		56-55N 40-27E	II B	2												62			Operational
Site B (2)		56-56N 40-33E	II B	2											62				Operational
Site C (3)		56-55N 40-17E	II B	2											63				Operational
Site D (4)		56-58N 40-40E	II B	2													63		Operational
Site E (5)		56-48N 40-16E	II D	2											64				U/C
TYUMEN																			
Site A (3)		56-52N 65-35E	II C	2														63	Late
Site B (1)		56-48N 65-38E	II C	2															Inactive
Site C (2)		56-51N 65-28E	II C	2														63	Late
VERKHNYAYA SALA																			
Site A (2)		58-09N 60-16E	II B	2											62				Operational
Site B (1)		58-06N 60-22E	II A	2														61	Operational
Site C (3)		58-10N 60-28E	II A	2														61	Operational
Site D (4)		58-12N 60-34E	II B	2															Operational
Site E (5)		58-14N 60-54E	II B	2											62				Operational
Site F (7)		58-14N 60-41E	III A		3										63				Operational
Site G (8)		58-13N 60-49E	III A		3										64				U/C
Site H (9)		58-05N 60-13E	II D	2											64				U/C
Site I (10)		58-07N 60-33E	II D	2											64				U/C
YEDROVO																			
Site A (2)		57-48N 33-36E	II B	2													62		Operational
Site B (1)		57-48N 33-14E	II B	2														62	Operational
Site C (5)		57-49N 33-08E	II D	2														63	U/C
Site D (4)		57-48N 33-29E	II D	2														63	Operational
Site E (8)		57-52N 33-17E	III A		3														Operational
Site F (6)		57-43N 33-06E	II D	2											64				U/C
Site G (7)		57-47N 33-02E	II D	2											64				U/C

TABLE 2. (Continued)

TABLE 2. (Continued)																				
Location *	BE Number	Coordinates	Type of Site	Number of Launchers		Site Negated		First Coverage		Latest Coverage		Stage of Const on Last Usable Coverage			Estimated Quarter Site Operational				Estimated Status	
				Soft	Hard	Date	Msn	Date	Msn	Date	Msn	Date	Msn	Const	1st	2nd	3rd	4th		
YOSHKAR-OLA																				
Site A (1)		56-35N 48-10E	II B	2													62		Operational	
Site B (2)		56-35N 48-18E	II B	2													62			
Site C (3)		56-32N 48-25E	II B	2											63					
Site D (4)		56-32N 48-19E	II D	2													63		Operational	
Site E (5)		56-34N 48-14E	II D	2															U/C	
Site F (6)		56-37N 48-22E	II D	2													64		U/C	
YURYA																				
Site A (2)		59-09N 49-33E	II A	2															61	Operational
Site B (1)		59-06N 49-41E	II A	2															61	Operational
Site C (3)		59-12N 49-26E	II B	2														62		Operational
Site D (4)	59-15N 49-24E	II B	2																Operational	
Site E (5)	59-22N 49-17E	III A		3													62		Operational	
Site F (7)	59-21N 49-13E	II B	2														62		Operational	
Site G (6)	59-04N 49-52E	III A		3															U/C	
Site H (8)	59-11N 49-46E	II D	2															63	U/C	
Site I (11)	59-06N 49-45E	II D	2																U/C	
Site J (9)	59-20N 49-26E	II D	2														64		U/C	
Site K (10)	59-13N 49-19E	III A															64		U/C	
Possible																				
SUB TOTALS				95	142	69														
TYURA TAM																				
Complex A		45-55N 63-20E	I	1															Operational	
Complex A2		45-55N 63-20E	I	1														Operational		
Complex B		45-59N 63-33E	I	1													Operational			
				Prototype																
Complex C1		45-48N 63-39E	II	1															Operational	
				Prototype																
Complex C2		45-48N 63-39E	II	1															Operational	
Complex C3		45-48N 63-39E	II	1															Operational	
Complex D1		45-59N 63-57E	III		3														Operational	
				Prototype																
Complex D2		45-59N 63-57E	III		3														U/C	
Complex E		45-58N 63-12E	Prob II C	Prob 3															U/C	
				Prototype																
Complex F		46-02N 63-06E	III		3														Operational	
Complex G1		46-03N 62-56E	Undet	Undet	Undet														U/C	
Complex G2	46-03N 62-56E	Undet	Undet	Undet														U/C		
Complex H			Undet															U/C		
TOTALS				108	151	78														

*TDI site designators are indicated in parentheses.

TABLE 3. SUMMARY EVALUATION OF SOVIET MRBM/IRBM DEPLOYMENT

LOCATION*	BE NUMBER	COORDINATES	TYPE	NO. OF PADS/ LAUNCHERS	DATE OF LATEST PHOTOGRAPHY	ESTIMATED CONSTR. STATUS
AKHTYRKA Launch Complex						
Launch Site No 1 (AKHTYRKA 1)		50-15-45N 34-50-15E	II	4		Complete
Launch Site No 2 (AKHTYRKA 2)		50-22-00N 34-57-15E	II	4		Complete
ALUKSNE Launch Complex						
Launch Site No 1 (LEJASCIEMS)		57-21-15N 26-44-45E	II	4		Complete
Launch Site No 2 (RUSKI)		57-25-15N 26-50-00E	II	4		Complete
Launch Site No 3 (LEJASCIEMS 2)		57-13-00N 26-33-30E	IV	2		Complete
ANASTASYEVKA Launch Complex						
Launch Site No 1 (ANASTASYEVKA 1)		48-35-00N 135-38-45E	II	4		Complete
Launch Site No 2 (ANASTASYEVKA 2)		48-36-45N 135-41-30E	II	4		Complete
AKTYUBINSK Launch Complex						
Launch Site No 1 (KARAKHOBDA 1)		49-57-45N 56-51-15E	IV	2		Early
Launch Site No 2 (PETROVSKIY 1)		50-00-30N 56-58-15E	IV	2		Mid
BALTA Launch Complex						
Launch Site No 1 (BALTA 1)		48-01-45N 29-33-30E	II	4		Complete
Launch Site No 2 (BALTA 2)		48-07-45N 29-34-30E	II	4		Complete
BARANO-ORENBURGSKOYE Complex						
Launch Site No 1 (SOFIYE ALEKSEYEVSKOYE)		44-15-30N 131-23-00E	I	4		Complete
Launch Site No 2 (BARANO-ORENBURGSKOYE)		44-19-45N 131-30-15E	I	4		Complete
BELOKOROVICHI Launch Complex						
Launch Site No 1 (OLEVSK 1)		51-08-45N 28-03-30E	I	4		Complete
Launch Site No 2 (OLEVSK 2)		51-10-30N 28-00-15E	I	4		Complete
Hard Launch Site (RUDNYA ZLOTINSKAYA)		51-04-30N 28-07-00E	IV	2		Complete
BELOMORSK Launch Complex						
Launch Site No 1 (RAMOYE)		64-26-15N 34-18-15E	III	2		Complete
BORSHCHEV Launch Complex						
Launch Site No 1 (SKALA PODOLSKAYA 1)		48-51-00N 26-08-30E	I	4		Complete
Launch Site No 2 (SKALA PODOLSKAYA 2)		48-53-15N 26-03-30E	I	4		Complete
BREST Launch Complex						
Launch Site No 1 (BREST 1)		51-49-00N 24-01-00E	II	4		Complete
Launch Site No 2 (BREST 2)		51-51-45N 24-01-45E	II	4		Complete
BRODY Launch Complex						
Launch Site No 1 (BRODY 2)		50-13-15N 25-05-00E	I	4		Complete
Launch Site No 2 (BERESTECHKO)		50-20-15N 25-05-30E	I	4		Complete
Hard Launch Site (BRODY 1)		50-06-00N 25-12-00E	IV	2		Complete
BYKOV Launch Complex						
Launch Site No 1 (POSSIBLE) (SLEDYUKI)		53-41-30N 30-20-30E	II	4		Complete
DERAZHNYA Launch Complex						
Launch Site No 1 (DERAZHNYA 1)		49-21-00N 27-26-30E	II	4		Complete
Launch Site No 2 (DERAZHNYA 2)		49-26-30N 27-29-00E	II	4		Complete
Hard Launch Site (KHMELNITSKIY)		49-24-45N 27-08-45E	IV	2		Complete

TABLE 3. (Continued)

LOCATION*	BE NUMBER	COORDINATES	TYPE	NO. OF PADS/ LAUNCHERS	DATE OF LATEST PHOTOGRAPHY	ESTIMATED CONSTR. STATUS
DISNA Launch Complex						
Launch Site No 1 (DISNA)		55-35-15N 28-15-45E	I	4		Complete
Launch Site No 2 (ZELKI)		55-36-00N 28-24-30E	I	4		Complete
Launch Site No 3 (BORKOVICHI)		55-42-00N 28-27-15E	II	4		Complete
DOLINA Launch Complex						
Launch Site No 1 (DOLINA 1)		49-04-00N 24-03-30E	I	4		Complete
Launch Site No 2 (DOLINA 2)		49-06-15N 24-08-30E	I	4		Complete
Hard Launch Site (BOLEKHOV)		49-06-45N 23-51-15E	IV	2		Complete
DROGOBYCH Launch Complex						
Launch Site No 1 (MEDENITSA)		49-22-00N 23-45-30E	I	4		Complete
Launch Site No 2 (DROGOBYCH)		49-24-45N 23-34-45E	I	4		Complete
Hard Launch Site (STRYY)		49-16-30N 23-43-00E	IV	2		Complete
DYATLOVO Launch Complex						
Launch Site No 1 (DYATLOVO)		53-33-00N 25-16-30E	I	4		Complete
Launch Site No 2 (BEREZOVKA)		53-35-30N 25-17-45E	I	4		Complete
Launch Site No 3 (ZBLYANY)		53-36-15N 25-26-30E	II	4		Complete
GELLI Launch Complex						
Hard Launch Site No 1 (KAKASHURA)		42-39-15N 47-27-00E	IV	2		Complete
Hard Launch Site No 2 (GELLI)		42-45-45N 47-28-15E	IV	2		Complete
Hard Launch Site No 3 (PARAUL)		42-47-45N 47-23-00E	IV	2		Late
GOMEL Launch Complex						
Launch Site No 1 (BORKHOV 1)		52-18-45N 30-43-00E	II	4		Complete
Launch Site No 2 (BORKHOV 2)		52-24-45N 30-38-30E	II	4		Complete
GRANOV Launch Complex						
Launch Site No 1 (GRANOV 1)		48-56-15N 29-30-30E	III	4		Complete
Hard Launch Site (GRANOV 2)		48-49-30N 29-29-15E	IV	2		Mid
Hard Launch Site (KALNIK)		48-59-30N 29-22-15E	IV			Mid
GRESK Launch Complex						
Launch Site No 1 (GRESK 1)		53-14-50N 27-42-15E	I	4		Complete
Launch Site No 2 (GRESK 2)		53-17-00N 27-41-15E	I	4		Complete
Launch Site No 3 (URECHYE)		53-11-30N 27-58-30E	II	4		Complete
GROZNY Launch Complex						
Launch Site No 1 (SUNZHENSKOYE)		43-08-00N 44-55-00E	I	4		Complete
Launch Site No 2 (NESTEROVSKAYA)		43-12-00N 44-57-00E	I	4		Complete
Launch Site No 3 (ACHKHoy-MARTIN)		43-10-00N 45-11-00E	IV	2		Complete
GUSEV Launch Complex						
Launch Site No 1 (GUSEV 1)		54-41-30N 22-05-15E	I	4		Complete
Launch Site No 2 (GUSEV 2)		54-44-15N 22-04-15E	I	4		Complete
GVARDEYSK Launch Complex						
Launch Site No 1 (PROBABLE) (GVARDEYSK 2)		54-40-30N 21-08-00E	I	4		Complete
Launch Site No 2 (GVARDEYSK 1)		54-45-15N 21-09-15E	I	4		Complete

TABLE 3. (Continued)

LOCATION*	BE NUMBER	COORDINATES	TYPE	NO. OF PADS/ LAUNCHERS	DATE OF LATEST PHOTOGRAPHY	ESTIMATED CONSTR. STATUS
JELGAVA Launch Complex						
Launch Site No 1 (IECAVA 1)		56-35-30N 24-08-45E	II	4		Complete
Launch Site No 2 (IECAVA 2)		56-39-45N 24-08-00E	II	4		Complete
Hard Launch Site (IECAVA 3)		56-33-15N 24-20-30E	IV	2		Complete
JONAVA Launch Complex						
Launch Site No 1 (KARMELAVA)		54-57-15N 24-06-00E	II	4		Complete
Launch Site No 2 (JONAVA)		55-01-00N 24-14-15E	II	4		Complete
KAMENETS-PODOLSKIY Launch Complex						
Launch Site No 1 (KAMENETS-PODOLSKIY)		48-51-15N 26-42-30E	II	4		Complete
Launch Site No 2 (DUNAYEVTSY)		48-55-15N 26-59-15E	II	4		Complete
KIVERTSY Launch Complex						
Launch Site No 1 (KIVERTSY 1)		50-52-45N 25-30-45E	I	4		Complete
Launch Site No 2 (KIVERTSY 2)		50-57-00N 25-36-15E	I	4		Complete
Launch Site No 3 (TROSTYANETS)		50-58-30N 25-39-15E	II	4		Complete
KONKOVICHI Launch Complex						
Launch Site No 1 (PETRIKOV)		52-10-30N 28-24-30E	I	4		Complete
Launch Site No 2 (KONKOVICHI)		52-15-30N 28-37-45E	I	4		Complete
KOROSTEN Launch Complex						
Launch Site No 1 (KOROSTEN 1)		50-51-45N 28-18-45E	II	4		Complete
Launch Site No 2 (KOROSTEN 2)		50-52-30N 28-30-30E	II	4		Complete
KOZHANOVICHI Launch Complex						
Launch Site No 1 (KOZHANOVICHI 1)		52-10-30N 27-51-30E	I	4		Complete
Launch Site No 2 (KOZHANOVICHI 2)		52-11-45N 27-48-30E	I	4		Complete
KRASKINO Launch Complex						
Launch Site No 1 (KRASKINO)		42-44-00N 130-40-45E	II	4		Complete
KRASNOZNAMENSK Launch Complex						
Launch Site No 1 (VIESVILLE)		55-01-30N 22-23-00E	I	4		Complete
Launch Site No 2 (RAGNT)		55-01-30N 22-11-30E	I	4		Complete
KROLEVETS Launch Complex						
Launch Site No 1 (KROLEVETS 1)		51-36-45N 33-28-45E	III	4		Complete
Launch Site No 2 (KROLEVETS 2)		51-40-45N 33-29-30E	III	4		Complete
Launch Site No 3 (KROLEVETS 3)		51-43-45N 33-43-45E	III	4		Complete
KURGANCHA Launch Complex						
Launch Site No 1 (KURGANCHA 1)		39-37-15N 65-54-00E	I	4		Complete
Launch Site No 2 (KURGANCHA 2)		39-37-30N 65-57-15E	I	4		Complete
Hard Launch Site (PROBABLE) (TYM)		39-35-15N 65-42-15E	IV	2		Complete
LEBEDIN Launch Complex						
Launch Site No 1 (LEBEDIN 1)		50-33-00N 34-26-00E	III	4		Complete
Launch Site No 2 (LEBEDIN 2)		50-35-45N 34-24-45E	III	4		Complete
Launch Site No 3		50-38-00N 34-27-30E	III	4		Complete

TABLE 3. (Continued)

LOCATION*	BE NUMBER	COORDINATES	TYPE	NO. OF PADS/ LAUNCHERS	DATE OF LATEST PHOTOGRAPHY	ESTIMATED CONSTR. STATUS
LIDA Launch Complex						
Launch Site No 1 (LIDA 1)		53-47-00N 25-21-30E	I	4		Complete
Launch Site No 2 (LIDA 2)		53-57-00N 25-28-00E	I	4		Complete
LUTSK Launch Complex						
Launch Site No 1 (LUTSK 1)		50-46-45N 25-03-00E	I	4		Complete
Launch Site No 2 (LUTSK 2)		50-50-15N 25-04-15E	I	4		Complete
Hard Launch Site (VLADMIR-VOLYNSKIY)		50-48-30N 24-42-30E	IV	2		Complete
MARINA GORKA Launch Complex						
Launch Site No 1 (MARINA GORKA)		53-26-30N 27-45-45E	II	4		Complete
MAYKOP Launch Complex						
Launch Site No 1 (KURDZHIPSKAYA)		44-31-45N 40-00-45E	II	4		Complete
Hard Launch Site (SHIRVANSKAYA)		44-25-30N 39-54-00E	IV	2		Complete
MOLOSKOVITSY Launch Complex						
Launch Site No 1 (MOLOSKOVITSY 1)		59-28-45N 29-06-00E	II	4		Complete
Launch Site No 2 (MOLOSKOVITSY 2)		59-29-30N 29-12-30E	II	4		Complete
Hard Launch Site (GURELEVO)		59-25-30N 28-52-30E	IV	2		Complete
MUKACHEVO Launch Complex						
Launch Site No 1 (MUKACHEVO 1)		48-19-00N 22-31-00E	I	4		Complete
Launch Site No 2 (MUKACHEVO 2)		48-19-30N 22-37-45E	I	4		Complete
NADVORNAYA Launch Complex						
Launch Site No 1 (PARYSHCHE)		48-38-00N 24-42-00E	I	4		Complete
Launch Site No 2 (NOVA VES)		48-39-30N 24-48-15E	I	4		Complete
Hard Launch Site (OTYNYA)		48-47-45N 24-50-15E	IV	2		Complete
NIGRANDE Launch Complex						
Launch Site No 1 (NIGRANDE)		56-31-00N 22-02-15E	III	4		Complete
Hard Launch Site (SKRUNDA)		56-35-45N 21-49-15E	IV	2		Late
Hard Launch Site (VAINODE)		56-28-30N 21-50-15E	IV	2		Early
NOVOSYSOYEVKA Launch Complex						
Launch Site No 1 (NOVOSYSOYEVKA)		44-11-30N 133-26-00E	III	4		Complete
Hard Launch Site		44-07-45N 133-27-30E	IV	2		Complete
Hard Launch Site (POSSIBLE)		44-07-45N 133-25-45E	IV			Early
OSTROG Launch Complex						
Launch Site No 1 (OSTROG 1)		50-14-30N 26-44-00E	I	4		Complete
Launch Site No 2 (OSTROG 2)		50-17-15N 26-41-30E	I	4		Complete
OSTROV Launch Complex						
Launch Site No 1 (ASANOVSHCHINA)		57-32-45N 28-12-00E	I	4		Complete
Launch Site No 2 (SHEVELEVO)		57-37-30N 28-12-45E	I	4		Complete
Hard Launch Site (REDKINO)		57-24-30N 28-26-45E	IV	2		Mid
PAPLAKE Launch Complex						
Launch Site No 1 (PAPLAKE 1)		56-24-00N 21-15-30E	I	4		Complete
Launch Site No 2 (PAPLAKE 2)		56-25-30N 21-15-30E	I	4		Complete

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TABLE 3. (Continued)

LOCATION*	BE NUMBER	COORDINATES	TYPE	NO. OF PADS/ LAUNCHERS	DATE OF LATEST PHOTOGRAPHY	ESTIMATED CONSTR. STATUS
PERVOMAYSK Launch Complex						
Hard Launch Site No 1 (KAMENNY MOST)		47-58-30N 30-53-00E	IV	2		Complete
Hard Launch Site No 2 (SEMENOVKA 1)		47-58-45N 30-59-30E	IV	2		Complete
Hard Launch Site No 3 (SEMENOVKA 2)		47-53-45N 30-57-30E	IV	2		Mid
PINSK Launch Complex						
Launch Site No 1 (IVANOVO)		52-10-45N 25-41-00E	I	4		Complete
Launch Site No 2 (MOTOL)		52-12-45N 25-44-45E	I	4		Complete
POLOTSK Launch Complex						
Launch Site No 1 (POLOTSK 1)		55-22-45N 28-44-00E	II	4		Complete
Launch Site No 2 (POLOTSK 2)		55-24-15N 28-33-30E	II	4		Complete
POSTAVY Launch Complex						
Launch Site No 1 (POSTAVY)		55-09-45N 26-54-15E	II	4		Complete
Launch Site No 2 (KOZYANY)		55-20-30N 26-51-30E	II	4		Complete
Hard Launch Site (POSTAVY 2)		55-06-15N 27-00-15E	IV	2		Mid
PRUZHANY Launch Complex						
Launch Site No 1 (PRUZHANY 1)		52-30-30N 24-08-15E	II	4		Complete
Launch Site No 2 (PRUZHANY 2)		52-33-00N 24-07-00E	II	4		Complete
RAKVERE Launch Complex						
Launch Site No 1 (SIMUNA)		59-08-30N 26-26-30E	II	4		Complete
Launch Site No 2 (VAIKE MAARJA)		59-11-30N 26-20-45E	II	4		Complete
RISTI Launch Complex						
Launch Site No 1 (RISTI 1)		59-04-00N 24-03-15E	I	4		Complete
Launch Site No 2 (RISTI 2)		59-06-30N 24-06-30E	I	4		Complete
ROZHDESTVENKA Launch Complex						
Launch Site No 1 (ROZHDESTVENKA)		45-47-15N 133-43-15E	II	4		Complete
RUZHANY Launch Complex						
Launch Site No 1 (KRUPA 1)		52-48-15N 24-42-00E	II	4		Complete
Launch Site No 2 (KRUPA 2)		52-49-30N 24-45-30E	II	4		Complete
SARY OZEK Launch Complex						
Launch Site No 1 (KARA BABAU 1)		44-32-00N 77-46-45E	III	4		Complete
Hard Launch Site 2 (KARA BABAU 2)		44-31-00N 77-58-45E	IV	2		Complete
Hard Launch Site 3 (KARA BABAU 3)		44-31-00N 77-43-00E	IV	2		Mid
SATEIKIAI Launch Complex						
Launch Site No 1 (SALANTAI 1)		55-59-45N 21-38-00E	I	4		Complete
Launch Site No 2 (SALANTAI 2)		56-02-15N 21-41-30E	I	4		Complete
Hard Launch Site (ZEMAICIU KALVARIJA)		56-01-30N 21-53-30E	IV	2		Complete
SIMFEROPOL Launch Complex						
Launch Site No 1 (MAZANKA 1)		44-54-15N 34-20-00E	I	4		Complete
Launch Site No 2 (BALKI 1)		44-57-15N 34-25-45E	I	4		Complete
SLONIM Launch Complex						
Launch Site No 1 (BYTEN 1)		52-52-30N 25-21-00E	I	4		Complete
Launch Site No 2 (BYTEN 2)		52-55-30N 25-21-30E	I	4		Complete

TABLE 3. (Continued)

LOCATION*	BE NUMBER	COORDINATES	TYPE	NO. OF PADS LAUNCHERS	DATE OF LATEST PHOTOGRAPHY	ESTIMATED CONSTR. STATUS
SMORGON Launch Complex						
Launch Site No 1 (SMORGON 1)		54-31-45N 26-17-30E	III	4		Complete
Launch Site No 2 (SMORGON 3)		54-36-15N 26-23-15E	III	4		Complete
Hard Launch Site (SMORGON 2)		54-26-15N 26-18-15E	IV	2		Complete
SOKAL Launch Complex						
Launch Site No 1 (SOKAL 1)		50-23-00N 24-18-30E	I	4		Complete
Launch Site No 2 (SOKAL 2)		50-27-30N 24-20-45E	I	4		Complete
Hard Launch Site (SOKAL 3)		50-20-15N 24-26-00E	IV	2		Complete
SOVETSK Launch Complex						
Launch Site No 1 (SLAVSK 1)		54-59-15N 21-37-15E	I	4		Complete
Launch Site No 2 (SLAVSK 2)		55-00-00N 21-29-00E	I	4		Complete
SUCHAN Launch Complex						
Launch Site No 1 (NOVITSKOYE)		43-01-45N 133-17-15E	I	4		Complete
Launch Site No 2 (SEVERNYY SUCHAN)		43-10-00N 133-20-00E	I	4		Complete
TAURAGE Launch Complex						
Launch Site No 1 (TAURAGE 3)		55-05-15N 22-19-30E	I	4		Complete
Launch Site No 2 (TAURAGE 1)		55-10-15N 22-20-45E	I	4		Complete
TAYBOLA Launch Complex						
Hard Launch Site No 1 (TAYBOLA 1)		68-28-15N 33-15-15E	IV	2		Complete
Hard Launch Site No 2 (TAYBOLA 2)		68-30-00N 33-23-00E	IV	2		Complete
Hard Launch Site No 3 (TAYBOLA 3)		68-25-45N 33-29-30E	IV	2		Late
TORVA Launch Complex						
Launch Site No 1 (TORVA 1)		57-56-30N 26-04-30E	I	4		Complete
Launch Site No 2 (TORVA 2)		57-59-15N 26-05-15E	I	4		Complete
Hard Launch Site (TSIRGULINA)		57-49 45N 26 12 15E	IV	2		Complete
UGOLNYY Launch Complex						
Launch Site No 1 (UGOLNYY)		64-46-15N 177-58-00E	II	4		Complete
UKMERGE Launch Complex						
Launch Site No 1 (VEPRIAI)		55-08-00N 24-38-45E	I	4		Complete
Launch Site No 2 (UKMERGE)		55-11-15N 24-42-30E	I	4		Complete
UMAN Launch Complex						
Launch Site No 1 (MOLODETSKOYE)		48-53-45N 30-27-45E	I	4		Complete
Launch Site No 2 (MANKOVKA)		48-57-45N 30-24-00E	I	4		Complete
Hard Launch Site (KISHENTSY)		49-00-15N 30-13-45E	IV	2		Complete
USOVO Launch Complex						
Launch Site No 1 (OVRUCH 1)		51-17-45N 28-16-00E	I	4		Complete
Launch Site No 2 (OVRUCH 2)		51-18-45N 28-10-30E	I	4		Complete
Launch Site No 3 (LIPNIKI)		51-12-00N 28-26-30E	II	4		Complete
VORU Launch Complex						
Launch Site No 1 (VORU 1)		57-46-00N 26-47-15E	II	4		Complete
Launch Site No 2 (VORU 2)		57-49-15N 26-50-30E	II	4		Complete

TABLE 3. (Continued)

LOCATION*	BE NUMBER	COORDINATES	TYPE	NO. OF PADS/ LAUNCHERS	DATE OF LATEST PHOTOGRAPHY	ESTIMATED CONSTR. STATUS
VSELYUB Launch Complex						
Launch Site No 1 (VSELYUB 1)		53-46-15N 25-43-00E	I	4		Complete
Launch Site No 2 (VSELYUB 2)		53-48-00N 25-46-45E	I	4		Complete
YELSK Launch Complex						
Launch Site No 1 (YELSK 1)		51-42-00N 29-12-30E	I	4		Complete
Launch Site No 2 (YELSK 2)		51-47-00N 29-18-00E	I	4		Complete
ZAGARE Launch Complex						
Launch Site No 1 (ZAGARE 1)		56-23-15N 23-19-30E	I	4		Complete
Launch Site No 2 (ZAGARE 2)		56-29-00N 23-21-30E	I	4		Complete
Hard Launch Site (LIELELEJA)		56-24-00N 23-36-45E	IV	2		Complete
ZHITOMIR Launch Complex						
Launch Site No 1 (ZHITOMIR 1)		50-04-45N 28-16-15E	II	4		Late
Launch Site No 2 (ZHITOMIR 2)		50-10-15N 28-16-00E	II	4		Complete
Launch Site No 3 (BERDICHEV)		50-05-45N 28-22-45E	II	4		Late
ZHMERINKA Launch Complex						
Launch Site No 1 (GNIVAN)		49-09-15N 28-12-15E	II	4		Complete
Launch Site No 2 (ZHMERINKA)		49-10-30N 28-04-45E	II	4		Complete
Hard Launch Site (VINNITSA)		49-17-30N 28-20-15E	IV	2		Complete
ZHURAVKA Launch Complex						
Launch Site 1		54-36-30N 76-40-45E	III	4		Complete
ZNAMENSK Launch Complex						
Launch Site No 1 (ZNAMENSK 1)		54-33-00N 21-11-15E	I	4		Complete
Launch Site No 2 (ZNAMENSK 2)		54-35-30N 21-08-45E	I	4		Complete

*TDI site designators are indicated in parentheses.

Approved For Release 2003/09/26 : CIA-RDP78T04757A000300010008-8

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